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While a variety of lossy compression schemes have been developed for certain forms of digital data (e.g., images, audio, video), the area of lossy compression techniques for arbitrary data tables has been left relatively unexplored. Nevertheless, such techniques are clearly motivated by the ever-increasing data collection rates of modern enterprises and the need for effective, guaranteed-quality approximate answers to queries over massive relational data sets. In this paper, we propose *SPA* ...

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Panagiotis G. Ipeirotis, Luis Gravano, Mehran Sahami

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N. Fuhr, C. Buckley

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Based on the binary independence indexing model, we apply three new concepts for probabilistic document indexing from relevance feedback data: Abstraction from specific terms and documents, which overcomes the restriction of limited relevance information for parameter estimation. Flexibility of the representation, which allows the integration of new text analysis and knowledge-based methods in our approach as well as the consideration of more comple ...

5 Semantic based image retrieval: a probabilistic approach

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Ben Bradshaw

Proceedings of the eighth ACM international conference on Multimedia October 2000

This paper describes an approach to image retrieval based on the underlying semantics of images. To extract these semantics a hierarchical, probabilistic approach is proposed. The labels that are extracted in this case are man-made, natural, inside and outside. The hierarchical framework combines class likelihood probability estimates across a number of levels to form a posterior estimate of the probability of class membership. Unlike previous work in this field, the proposed algorithm can de ...

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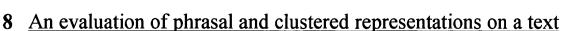
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S. K. M. Wong, Y. Y. Yao

ACM Transactions on Information Systems (TOIS) January 1995 Volume 13 Issue 1

This article examines and extends the logical models of information retrieval in the context of probability theory. The fundamental notions of term weights and relevance are given probabilistic interpretations. A unified framework is developed for modeling the retrieval process with probabilistic inference. This new approach provides a common conceptual and mathematical basis for many retrieval models, such as the Boolean, fuzzy set, vector space, and conventional probabilistic models. With ...



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<u>acategorization task</u>

David D. Lewis

Proceedings of the 15th annual international ACM SIGIR conference on Research and development in information retrieval June 1992

Syntactic phrase indexing and term clustering have been widely explored as text representation techniques for text retrieval. In this paper we study the properties of phrasal and clustered indexing languages on a text categorization task, enabling us to study their properties in isolation from query interpretation issues. We show that optimal effectiveness occurs when using only a small proportion of the indexing terms available, and that effectiveness peaks at a higher feature set size and ...

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2 <u>View management in multimedia databases</u>

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K. Selçuk Candan, Eric Lemar, V. S. Subrahmanian

The VLDB Journal — The International Journal on Very Large Data Bases July 2000

Volume 9 Issue 2

Though there has been extensive work on multimedia databases in the last few years, there is no prevailing notion of a multimedia view, nor

there are techniques to create, manage, and maintain such views. Visualizing the results of a dynamic multimedia query or materializing a dynamic multimedia view corresponds to assembling and delivering an interactive multimedia presentation in accordance with the visualization specifications. In this paper, we suggest that a non-interactive multimedia prese ...

3 SPARTAN: a model-based semantic compression system for massive 99% data tables

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7 <u>Doctoral consortium: Internet search using adaptive visualization</u>

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⚠ Dmitri Roussinov

CHI '99 extended abstracts on Human factors in computer systems May 1999

Automatically created maps of concepts improve navigation in large collections of text documents. My research in progress on leveraging navigation by interactively providing the ability to modify the maps themselves has led me to believe that this functionality increases responsiveness to the user and makes searching more effective. I explored both what adaptive features users perceive to be most helpful and the overall effect of adaptation on achieving information seeking goals.

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9 Training algorithms for linear text classifiers

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14 Incorporating a semantic analysis into a document retrieval strategy

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